CENTRAL INTELLIGENCE AGENCY

CY DP82-00457R006700 CD NO.

25X1A

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COUNTRY China/Macao/Mong Kong

DATE DISTR. 19 Jan 51

SUBJECT

Negotiations for Marine Engines in Hong Kong

NO. OF PAGES

PLACE ACQUIRED

DATE OF

INFO.

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RETURN TO CIA

NO. OF ENCLS.

SUPPLEMENT TO REPORT NO.

25X1X1. Six hundred Gray marine diesel engines have been offered for sale by an unidentified representative of T. V. SOONG in Macao. A former Nationalist official not associated with SOONS was in mid-October 1950 trying to purchase the engines for resale to an unnamed customer, presumably Chinese Communist. The price of the engines was not stated in the original offer. Several intended to go to Macao to inspect the engines Hong Kong commercial people and learn particulars,

Specifications of the engines, Model 64 HN 9 were cited as follows: *

General Specification for Gray Marine Diesel

Model. 64 HN9

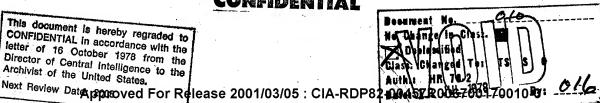
Specification:

Engine Model	64=HN9
Number of Cylinders	6
Borand Storke, inches	44 x 5
Total Displacement	452 cu. inches
B.M.E.P. 1bs per sq in. at maximum power ration	99.83
Conpression Ratio	16.1
Number of Exhaust Valves per cylinder	2.
Exhaust Valve diameter	1-9/16
Number of Main Bearings	7.
Main Bearing Diameter. inches	3-1/2
Main Bearing Length inches	1-1/8.
Main Bearing Projected area, sq in	27.56
Crankpin diameter inches	2-3/4
Crankpin Bearing length. inches	1-25/32
Crankpin Bearing projected area. sq. area inches	29.37

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CONFIDENTIAL

This document is hereby regraded to CONFIDENTIAL in accordance with the letter of 16 October 1978 from the Director of Central Intelligence to the Archivist of the United States.



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Standards - S. C. Froll IS Onni

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CENTRAL INTILLIZATION ACCHOY

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Installation Data: Maximum installation angle, deep sump 20 degrees, Maximum installation angle, flat pan 16 degrees. Exhaust Flange (ISP) inches
Firing Order: 2-0-3-6-2-4=
Starter: 12-volt, flange mounted unit with positive engagement of pinion through solenoid relay switch.
Generator: 12-volt. 225-watt generator with voltage regulator belt driven. Cuts in at 560 rpm. reachs maximum charge of 16-18 amps. at 950.
Lubrication oil filter: A partial flow absorption typecolor filter subjects all engine oil to extremely fine filtering.
Fuel filters:
Transmission Ratio:
Rotation: Right Hand Propeller.
Capacities
Engine Crankcase. Lubrication oil
(Figure given is minimum required of refill and depends on angle of installation and type of oil pan used.) Fill grade of diesel oil, S.A.E. No. 30
Clutch and reverse gear: lubrication oil
Fresh Materopoling system
Sea water pump capacity 2100 rpm.
Lubrication oil pressure
Standard Clearances
Piston in cylinder liner

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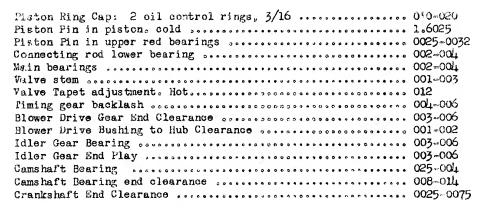
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Engine Timing in Crankshaft Degrees

Injection begins	2-1/2 deg. before top dead center.
Injection ends	5 deg before top dead centers
Injection period	
Exhaust Valve open	87-1/2 deg. before bottom dead center.
Exhaust Period	
Exhaust Valve close	44-1/2 deg. after bottom dead center.
Intake port open	48 deg. before dead bottom center.
Intake port close	48 deg. before bottom dead center.
Intake period	% degrees.
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* Comment: Specifications are copied exactly as received,

